

**COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WATER QUALITY PROGRAMS  
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Subject: Guidance Memo No. 01-2013 – Amendment #5  
Checklists for Wastewater Laboratory Inspections

To: Regional Directors

From: Ellen Gilinsky, Ph.D., Director



Date: May 4, 2006

Copies: Regional Deputy Directors, Regional Water Permit Managers, Regional Compliance and Enforcement Managers, Bill Purcell, Betsy Ziomek

**Summary:**

Several of the laboratory inspection checklists for analytical methods used for VPDES or VPA compliance monitoring have been updated and one new checklist has been created for Luminescence-based Sensor Oxygen Demand (LDO).

**Electronic Copy:**

An electronic copy of this guidance in PDF format is available for staff internally on DEQNET, and for the general public on DEQ's website at:  
<http://www.deq.virginia.gov/waterguidance/permits.html> .

**Contact information:**

Questions or comments regarding this topic can be directed to Betsy Ziomek at (804) 698-4181, e-mail address [esziomek@deq.virginia.gov](mailto:esziomek@deq.virginia.gov)

**Disclaimer:**

**This document is provided as guidance and, as such, sets forth standard operating procedures for the agency. However, it does not mandate any particular method nor does it prohibit any particular method for the analysis of data, establishment of a wasteload allocation, or establishment of a permit limit. If alternative proposals are made, such proposals should be reviewed and accepted or denied based on their technical adequacy and compliance with appropriate laws and regulations.**

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Several of the laboratory inspection checklists for analytical methods used for VPDES or

VPA *compliance* monitoring have been updated and one new checklist has been created for Luminescence-based Sensor Oxygen Demand (LDO). The checklists are located on DEQNet at [http://deqnet/docs/default.asp?path=../main/water/Water\\_Inspections/Lab\\_Inspection](http://deqnet/docs/default.asp?path=../main/water/Water_Inspections/Lab_Inspection), and DEQ's web page at <http://www.deq.virginia.gov/forms/checklist.html>. The following list indicates what changes were made:

**E.coli** IDEXX rev 05-06 – Colilert-18 & Colilert-24 MPN rev 05/06 [Changed #19 – citation to “5.3”; Changed #12 – added information for using Colilert-24]

**LDO** rev 05/06 – Luminescence-based Sensor Dissolved Oxygen [New Checksheet]

**m-ColiBlue24** – *E. coli* Membrane Filter [Changed #15 – removed the word “fecal”; Changed #29 – incubation time is now 24 hours (method doesn't specify the leeway to be given.)]

**O-Phos** (Ascorbic Acid) – Orthophosphate [Changed #2 – added 650 nm wavelength for EPA 365.2, increased light path for SM to “2.5 or longer” for 880 nm wavelength.]

**pH Elec** rev 02/06 – pH [Changed #11 – removed comment “(disregard if ATC is used)”; #12, 13 & 14 – Added information about Automatic Temperature Compensation (ATC) and the need to verify temperature calibration annually.]

**TRC** (LaMotte) rev 04/06 – Total Residual Chlorine [#19 – Changed citation to 9.2.3]

**TSS** rev 02/06 – Total Suspended Solids [Changed #1 – “Gelman Type A/E” replaced with “Pall Type A/E” due to name change of company.]